

L Number	Hits	Search Text	DB	Time stamp
1	248	microparticles and matrix and protein and sugar and lipid	USPAT; EPO; JPO; DERWENT	2003/05/13 18:22
6	174	microparticles and matrix and albumin and lactose and lipid	USPAT; EPO; JPO; DERWENT	2003/05/13 18:16
11	123	microparticles and matrix and albumin and lactose and phospholipid	USPAT; EPO; JPO; DERWENT	2003/05/13 18:19
21	5	((microparticles and matrix and albumin and lactose and phospholipid) and anesthetic) and bupivacaine	USPAT; EPO; JPO; DERWENT	2003/05/13 18:22
16	27	(microparticles and matrix and albumin and lactose and phospholipid) and anesthetic	USPAT; EPO; JPO; DERWENT	2003/05/13 18:20
26	366	particles and matrix and albumin and lactose and phospholipid	USPAT; EPO; JPO; DERWENT	2003/05/13 18:19
31	35	(particles and matrix and albumin and lactose and phospholipid) and anesthetic	USPAT; EPO; JPO; DERWENT	2003/05/13 18:23
36	6	((particles and matrix and albumin and lactose and phospholipid) and anesthetic) and bupivacaine	USPAT; EPO; JPO; DERWENT	2003/05/13 18:20
41	3151	matrix and protein and sugar and lipid	USPAT; EPO; JPO; DERWENT	2003/05/13 18:22
46	123	matrix and protein and sugar and lipid and anesthetic	USPAT; EPO; JPO; DERWENT	2003/05/13 18:22
51	13	(matrix and protein and sugar and lipid and anesthetic) and bupivacaine	USPAT; EPO; JPO; DERWENT	2003/05/13 18:24
56	675	liposomes and anesthetic	USPAT; EPO; JPO; DERWENT	2003/05/13 18:34
61	89	(liposomes and anesthetic) and bupivacaine	USPAT; EPO; JPO; DERWENT	2003/05/13 18:34
66	50	(liposomes and anesthetic) and bupivacaine and matrix	USPAT; EPO; JPO; DERWENT	2003/05/13 18:24
71	6	((liposomes and anesthetic) and bupivacaine and matrix) and lipid and albumin and lactose	USPAT; EPO; JPO; DERWENT	2003/05/13 18:26
76	11	((liposomes and anesthetic) and bupivacaine and matrix) and lipid and protein and sugar	USPAT; EPO; JPO; DERWENT	2003/05/13 18:29
81	0	chondroine adj sulfate	USPAT; EPO; JPO; DERWENT	2003/05/13 18:29
86	0	chondroine adj sulphate	USPAT; EPO; JPO; DERWENT	2003/05/13 18:29
91	0	chondroine	USPAT; EPO; JPO; DERWENT	2003/05/13 18:29
96	0	glycosamin adj glucan	USPAT; EPO; JPO; DERWENT	2003/05/13 18:30
101	2	glycosamino adj glucan	USPAT; EPO; JPO; DERWENT	2003/05/13 18:30
106	18	glycosaminoglucan	USPAT; EPO; JPO; DERWENT	2003/05/13 18:31
111	0	glycosaminoglucan and liposome	USPAT; EPO; JPO; DERWENT	2003/05/13 18:31

116	0	glycosaminoglucan and microparticle	USPAT; EPO; JPO; DERWENT	2003/05/13 18:31
121	0	glycosaminoglucan and microparticles	USPAT; EPO; JPO; DERWENT	2003/05/13 18:31
126	12	glycosaminoglucan and particles	USPAT; EPO; JPO; DERWENT	2003/05/13 18:33
131	964	hyaluronic and liposomes	USPAT; EPO; JPO; DERWENT	2003/05/13 18:34
136	291	hyaluronic and microparticles	USPAT; EPO; JPO; DERWENT	2003/05/13 18:34
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146	45	((hyaluronic and liposomes) and anesthetic) and bupivacaine	USPAT; EPO; JPO; DERWENT	2003/05/13 18:35
151	30	((hyaluronic and liposomes) and anesthetic) and bupivacaine) and matrix	USPAT; EPO; JPO; DERWENT	2003/05/13 19:22
156	760	pore adj forming and matrix	USPAT; EPO; JPO; DERWENT	2003/05/13 19:23
161	50	pore adj forming adj agent and sugar and matrix	USPAT; EPO; JPO; DERWENT	2003/05/13 19:23
166	37	pore adj forming adj agent and lactose and matrix	USPAT; EPO; JPO; DERWENT	2003/05/13 19:23
171	15	pore adj forming adj agent and lactose and matrix and microparticle	USPAT; EPO; JPO; DERWENT	2003/05/13 19:24
-	2	daniel and kohane	USPAT; EPO; JPO; DERWENT	2003/05/09 15:54
-	144	michael and lipp	USPAT; EPO; JPO; DERWENT	2003/05/09 15:57
-	1484	robert and langer	USPAT; EPO; JPO; DERWENT	2003/05/09 15:57
-	103	robert adj5 langer	USPAT; EPO; JPO; DERWENT	2003/05/09 16:22
-	88	particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug	USPAT; EPO; JPO; DERWENT	2003/05/09 16:26
-	0	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and glycosaminoglycan	USPAT; EPO; JPO; DERWENT	2003/05/09 16:25
-	0	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and glycosamino adj glycan	USPAT; EPO; JPO; DERWENT	2003/05/09 16:24
-	2114	glycosaminoglycan	USPAT; EPO; JPO; DERWENT	2003/05/09 16:25
-	483	glycosaminoglycan and particles	USPAT; EPO; JPO; DERWENT	2003/05/09 16:25
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-	67	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and diagnostic	USPAT; EPO; JPO; DERWENT	2003/05/09 16:26
-	0	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and ratio adj5 lipid adj5 protein adj5 sugar	USPAT; EPO; JPO; DERWENT	2003/05/09 16:28
-	72	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and diameter	USPAT; EPO; JPO; DERWENT	2003/05/09 16:29
-	1270	1-6 and micrometers	USPAT; EPO; JPO; DERWENT	2003/05/09 16:29
-	14	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and bupivacaine	USPAT; EPO; JPO; DERWENT	2003/05/09 16:30
-	13	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and anesthetic	USPAT; EPO; JPO; DERWENT	2003/05/09 16:33
-	2	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and anticonvulsant	USPAT; EPO; JPO; DERWENT	2003/05/09 16:34
-	9	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and vasodilator	USPAT; EPO; JPO; DERWENT	2003/05/09 16:34
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-	52	((glycosaminoglycan and particles) and lipid and sugar and albumin) and lactose	USPAT; EPO; JPO; DERWENT	2003/05/09 16:37
-	25	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and diagnostic adj agent	USPAT; EPO; JPO; DERWENT	2003/05/09 16:39
-	20	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and prophylactic adj agent	USPAT; EPO; JPO; DERWENT	2003/05/09 16:40
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-	35	(particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug) and spray adj drying	USPAT; EPO; JPO; DERWENT	2003/05/09 16:59
-	0	microparticles and matrix adj5 ptotein adj5 sugar adj5 lipid	USPAT; EPO; JPO; DERWENT	2003/05/09 17:00
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-	0	microparticles and matrix adj5 protein adj5 sugar adj5 lipid	USPAT; EPO; JPO; DERWENT	2003/05/09 17:00
-	247	microparticles and matrix and protein and sugar and lipid	USPAT; EPO; JPO; DERWENT	2003/05/09 17:01
-	7	(microparticles and matrix and protein and sugar and lipid) and encapsulated adj5 drug	USPAT; EPO; JPO; DERWENT	2003/05/09 17:01

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NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
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NEWS	32	Apr 14	MEDLINE Reload
NEWS	33	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	34	Apr 21	Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS	35	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	36	Apr 28	RDISCLOSURE now available on STN
NEWS	37	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	EXPRESS		April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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FILE COVERS 1907 - 13 May 2003 VOL 138 ISS 20

FILE LAST UPDATED: 12 May 2003 (20030512/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s particles and lipid and protein and sugar and bupivacaine

643778 PARTICLES
1 PARTICLESES
643778 PARTICLES
(PARTICLES OR PARTICLESES)
223104 LIPID
181097 LIPIDS
278176 LIPID
(LIPID OR LIPIDS)
1508080 PROTEIN
1019140 PROTEINS
1743431 PROTEIN
(PROTEIN OR PROTEINS)
219304 SUGAR
117927 SUGARS
286299 SUGAR

(SUGAR OR SUGARS)

2743 BUPIVACAINE

L1 3 PARTICLES AND LIPID AND PROTEIN AND SUGAR AND BUPIVACAINE

=>

=> d 1-3 ibib abs hitrn

L1 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:314746 CAPLUS

DOCUMENT NUMBER: 136:330564

TITLE: **Lipid-protein-sugar**
microparticles for drug delivery

INVENTOR(S): Kohane, Daniel S.; Lipp, Michael M.; Langer, Robert S.

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032398	A2	20020425	WO 2001-US32378	20011016
WO 2002032398	A3	20030109		

W: CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, TR

US 2002150621	A1	20021017	US 2001-981020	20011016
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PRIORITY APPLN. INFO.: US 2000-240636P P 20001016

AB **Lipid-protein-sugar** microparticles (LPSPs)

are provided as a vehicle for drug delivery. Any therapeutic, diagnostic, or prophylactic agent may be encapsulated in a **lipid-protein-sugar** matrix to form microparticles. Preferably the diam. of the LPSP ranges from 50 to 10 μ m. The **particles** may be prepd. by using any known **lipid** (e.g., DPPC), **protein** (e.g., albumin), or **sugar** (e.g., lactose).

Methods of prepg. and administering the **particles** are also provided. Methods of providing a nerve block are also provided by administering LPSPs with a local anesthetic (e.g., **bupivacaine**) within the vicinity of a nerve. Title microparticles (DPPC-albumin-lactose) were prepd. contg. **bupivacaine**. The drug release from the **particles** was complete within 24 h.

L1 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:32078 CAPLUS

DOCUMENT NUMBER: 137:174753

TITLE: Biocompatibility of **lipid-protein-sugar particles** containing **bupivacaine** in the epineurium

AUTHOR(S): Kohane, Daniel S.; Lipp, Michael; Kinney, Ramsey C.; Anthony, Douglas C.; Louis, David N.; Lotan, Noah; Langer, Robert

CORPORATE SOURCE: Department of Pediatrics, Massachusetts General Hospital and Harvard Medical School, Boston, MA, 02114, USA

SOURCE: Journal of Biomedical Materials Research (2002), 59(3), 450-459

CODEN: JBMRBG; ISSN: 0021-9304

PUBLISHER: John Wiley & Sons, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Novel **lipid-protein-sugar particles**

(LPSPs) are potentially biocompatible because they are composed of naturally occurring ingredients and their expected tissue dwell times are relatively short. In this research, the authors used histol. sections to study tissue reaction to LPSPs (4.4-.mu.m median diam.) when used for sciatic nerve block in the rat. As a ref., the authors compared LPSPs to 60-.mu.m median diam. poly(lactic-co-glycolic) acid (PLGA) microspheres (110,000 MW PLGA, glycolic/lactic ratio 65:35). Four days after injection, both particle types produced acute inflammation within the confines of the injectate, inflammation in adjacent tissues, and myotoxicity. **Bupivacaine-free particles** did not display myotoxicity, and inflammation in adjacent tissues was reduced. At 2 wk, inflammation from LPSPs had almost disappeared, whereas PLGA microspheres had a foreign-body giant cell reaction until at least 8 wk after injection. In contrast, 3.6-.mu.m median diam., 20,000-MW PLGA microspheres produced a primarily histiocytic reaction 2 wk after injection. In summary, the LPSPs and PLGA microspheres studied herein have excellent biocompatibility, but tissue reaction to the former is of much shorter duration. Myotoxicity and inflammation of surrounding tissue is largely attributed to **bupivacaine**. Foreign-body giant cells may be attributed to particle size rather than a specific reaction to PLGA.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:2220 CAPLUS

DOCUMENT NUMBER: 134:212565

TITLE: Sciatic nerve blockade with **lipid-protein-sugar particles** containing **bupivacaine**

AUTHOR(S): Kohane, Daniel S.; Lipp, Michael; Kinney, Ramsey C.; Lotan, Noah; Langer, Robert

CORPORATE SOURCE: Department of Pediatrics, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA

SOURCE: Pharmaceutical Research (2000), 17(10), 1243-1249
CODEN: PHREEB; ISSN: 0724-8741

PUBLISHER: Kluwer Academic/Plenum Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The efficacy of **lipid-protein-sugar**

particles (LPSPs) in providing prolonged duration local anesthesia by percutaneous injection was assessed. Ten % (wt./wt.) **bupivacaine** LPSPs (60% dipalmitoylphosphatidylcholine) were 4.4 .+- . 0.39 .mu.m in diam., with a tap d. of 0.11 .+- . 0.04 g/mL. These LPSPs and 50% (wt./wt.) PLGA microspheres had comparable durations of sensory blockade (468 .+- . 210 min vs. 706 .+- . 344 min, p = 0.08), although the LPSPs produced a much lesser duration of motor blockade (508 .+- . 258 min vs. 1062 .+- . 456 min, p = 0.005). Systemic toxicity was minimal in both groups. LPSPs provide sensory blockade durations comparable to those from PLGA microspheres, with a smaller amt. of drug loading. Motor blockade is shorter with LPSPs than with PLGA microspheres. LPSPs appear to be suitable for extended nerve blockade. Given their size and low d., they may be useful for topical anesthesia of the airway.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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      8 PARTICLES
      0 LIPID
      7 PROTEIN
      1 SUGAR
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      1 SUGAR
      (SUGAR OR SUGARS)
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L2      0 PARTICLES AND LIPID AND PROTEIN AND SUGAR AND ENCAPSULATED
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FILE COVERS 1907 - 13 May 2003 VOL 138 ISS 20
 FILE LAST UPDATED: 12 May 2003 (20030512/ED)

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643778 PARTICLES
1 PARTICLESES
643778 PARTICLES
(PARTICLES OR PARTICLESES)
223104 LIPID
181097 LIPIDS
278176 LIPID
(LIPID OR LIPIDS)
219304 SUGAR
117927 SUGARS
286299 SUGAR
(SUGAR OR SUGARS)
1508080 PROTEIN
1019140 PROTEINS
1743431 PROTEIN
(PROTEIN OR PROTEINS)

L4 110 PARTICLES AND LIPID AND SUGAR AND PROTEIN

=> s L4 and encapsulated

26260 ENCAPSULATED

L5 5 L4 AND ENCAPSULATED

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L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:973822 CAPLUS

TITLE: Effectiveness of muscimol-containing microparticles
against pilocarpine-induced focal seizures

AUTHOR(S): Kohane, Daniel S.; Holmes, Gregory L.; Chau, Ying;
Zurakowski, David; Langer, Robert; Cha, Byung Ho

CORPORATE SOURCE: Pediatric Intensive Care Unit, MassGeneral Hospital
for Children, Children's Hospital Harvard Medical
School, Boston, MA, USA

SOURCE: Epilepsia (2002), 43(12), 1462-1468

CODEN: EPILAK; ISSN: 0013-9580

PUBLISHER: Blackwell Publishing, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Purpose: To investigate the efficacy of in situ lipid-
protein-sugar particles (LPSPs) in mitigating
the epileptogenic and histol. effects of intrahippocampal pilocarpine in
rats. Methods: LPSPs with and without muscimol were produced by
spray-drying, sized by Coulter counter, and muscimol content detd. by
high-pressure liq. chromatog. (HPLC). **Particles**, free muscimol
or saline, were injected into the hippocampi of Sprague-Dawley rats before
40 mM pilocarpine, and seizure activity was scored. The trajectories of
behavioral scores between groups were compared with two-way repeated
measures anal. of variance. Animals were killed after 2 wk. Brain
sections were stained (Timm and thionin) and scored. Results: LPSPs were
4 to 5 .mu.m in diam., and contained 0 or 2% (wt/wt) muscimol. In vitro,
muscimol was released over a 5-day period. Intrahippocampal injections of
normal saline and blank LPSPs did not deter seizure activity from
pilocarpine. The rise of the trajectory in behavior scores in animals
given LPSPs contg. 5 .mu.g muscimol was significantly slower than in those
receiving saline, blank **particles**, or 5 .mu.g of unencapsulated
muscimol. There was less apparent neuronal injury and CA3 and
supragranular mossy fiber sprouting in hippocampi of animals receiving

muscimol-contg. **particles** than in animals that did not receive muscimol. Hippocampi of animals that received 5 .mu.g of **encapsulated** muscimol showed less supragranular sprouting than did those receiving 5 .mu.g of unencapsulated muscimol, but showed no difference in cell loss or CA3 sprouting. Conclusions: Focally delivered biodegradable microparticles loaded with muscimol are effective in reducing seizure activity from pilocarpine in animals and mitigate the histol. effects.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:314746 CAPLUS

DOCUMENT NUMBER: 136:330564

TITLE: **Lipid-protein-sugar**
microparticles for drug delivery

INVENTOR(S): Kohane, Daniel S.; Lipp, Michael M.; Langer, Robert S.

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032398	A2	20020425	WO 2001-US32378	20011016
WO 2002032398	A3	20030109		

W: CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR

US 2002150621	A1	20021017	US 2001-981020	20011016
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PRIORITY APPLN. INFO.: US 2000-240636P P 20001016

AB **Lipid-protein-sugar** microparticles (LPSPs)

are provided as a vehicle for drug delivery. Any therapeutic, diagnostic, or prophylactic agent may be **encapsulated** in a **lipid-protein-sugar** matrix to form microparticles. Preferably the diam. of the LPSP ranges from 50 to 10 .mu.m. The **particles** may be prepd. by using any known **lipid** (e.g., DPPC), **protein** (e.g., albumin), or **sugar** (e.g., lactose).

Methods of prepg. and administering the **particles** are also provided. Methods of providing a nerve block are also provided by administering LPSPs with a local anesthetic (e.g., bupivacaine) within the vicinity of a nerve. Title microparticles (DPPC-albumin-lactose) were prepd. contg. bupivacaine. The drug release from the **particles** was complete within 24 h.

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:314744 CAPLUS

DOCUMENT NUMBER: 136:330527

TITLE: **Lipid-protein-sugar**
particles for delivery of nucleic acids

INVENTOR(S): Kohane, Daniel S.; Anderson, Daniel G.; Langer, Robert S.

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA

SOURCE: PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 WO 2002032396 A2 20020425 WO 2001-US32210 20011016
 WO 2002032396 A3 20030206
 W: CA, JP
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE, TR

US 2002150626 A1 20021017 US 2001-981460 20011016
 PRIORITY APPLN. INFO.: US 2000-240698P P 20001016

AB **Lipid-protein-sugar particles**
 (LPSPs) are provided as a vehicle for the delivery of nucleic acids. Any polynucleotide (e.g., DNA, RNA) may be **encapsulated** in a **lipid-protein-sugar** matrix to form microparticles. Preferably the diam. of the LPSP ranges from 50 nm to 10 .mu.m. The **particles** may be prepd. using any known **lipid** (e.g., DPPC), **protein** (e.g., albumin), or **sugar** (e.g., lactose). Methods of prepg. the **particles** and administering the **particles** for gene therapy are also provided. Preferably the methods of prepg. the LPSPs do not significantly damage the polynucleotide to be delivered.

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:622166 CAPLUS
 DOCUMENT NUMBER: 131:254402
 TITLE: Site-specific binding system, imaging compositions and methods
 INVENTOR(S): Lanza, Gregory M.; Wickline, Samuel A.
 PATENT ASSIGNEE(S): Barnes-Jewish Hospital, USA
 SOURCE: U.S., 37 pp., Cont.-in-part of U.S. 5,780,010.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5958371	A	19990928	US 1997-989979	19971212
US 5690907	A	19971125	US 1995-488743	19950608
CA 2222544	AA	19961227	CA 1996-2222544	19960606
US 5989520	A	19991123	US 1998-26216	19980219
WO 2000071172	A1	20001130	WO 1999-US11491	19990525
W: AU, BR, CA, JP, NO				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9940975	A1	20001212	AU 1999-40975	19990525
EP 1251877	A1	20021030	EP 1999-924489	19990525
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				

PRIORITY APPLN. INFO.:
 US 1995-488743 A2 19950608
 US 1996-647277 A2 19960523
 WO 1999-US11491 A 19990525

AB A method for ligand-based binding of **lipid encapsulated particles** to mol. epitopes on a surface in vivo or in vitro comprises sequentially administering (a) a site-specific ligand activated with a biotin activating agent; (b) an avidin activating agent; and (c) **lipid-encapsulated particles** activated with a biotin activating agent, whereby the ligand is conjugated to the **particles** through an avidin-biotin interaction and the resulting conjugate is bound to the mol. epitopes on such surface. The conjugate is effective for imaging by x-ray, ultrasound, magnetic resonance, positron emission tomog., or nuclear imaging. Compns. for use in ultrasonic imaging of natural or synthetic surfaces and for enhancing the acoustic reflectivity thereof are also disclosed.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:401728 CAPLUS
DOCUMENT NUMBER: 125:67764
TITLE: Targeted delivery via biodegradable polymers
INVENTOR(S): Roth, Laurence A.; Herman, Stephen Jack
PATENT ASSIGNEE(S): Focal, Inc., USA
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9611671	A1	19960425	WO 1995-US14103	19951011
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2202511	AA	19960425	CA 1995-2202511	19951011
AU 9539720	A1	19960506	AU 1995-39720	19951011
AU 700903	B2	19990114		
EP 785774	A1	19970730	EP 1995-937688	19951011
EP 785774	B1	20010131		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10509696	T2	19980922	JP 1995-513488	19951011
EP 1004293	A2	20000531	EP 1999-202631	19951011
EP 1004293	A3	20011004		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
AT 198979	E	20010215	AT 1995-937688	19951011
ES 2155534	T3	20010516	ES 1995-937688	19951011
US 5879713	A	19990309	US 1997-787647	19970123
AU 9923614	A1	19990527	AU 1999-23614	19990401
AU 726472	B2	20001109		

PRIORITY APPLN. INFO.:
US 1994-322092 A 19941012
AU 1995-39720 A3 19951011
EP 1995-937688 A3 19951011
WO 1995-US14103 W 19951011

AB Delivery of bioactive mols. such as nucleic acid mols. encoding a **protein** can be enhanced by immobilization of the bioactive mol. in a polymeric material adjacent to the cells where delivery is desired, where the bioactive mol. is **encapsulated** in a vehicle such as liposomes which facilitates transfer of the bioactive mols. into the targeted tissue. Targeting of the bioactive mols. can also be achieved by selection of an encapsulating medium of an appropriate size whereby the medium serves to deliver the mols. to a particular target. For example, encapsulation of nucleic acid mols. or biol. active **proteins** within biodegradable, biocompatible polymeric microparticles which are appropriately sized to infiltrate, but remain trapped within, the capillary beds and alveoli of the lungs can be used for targeted delivery to these regions following administration to a patient by infusion or injection. Thus, expression vector pRSVLUC, contg. firefly luciferase cDNA, was dissolved in a 10% soln. of gelling prepolymer having a PEG core with .apprx.5 lactate residues at each end, capped by acrylate groups. This soln., which also contained eosin Y as photoinitiator, was incorporated into pos. charged liposomes contg. the cationic **lipid** analog, 1,2-dioleoyloxy-3-(trimethylammonium)propane. The liposomes were introduced into the rat carotid artery in vivo and gelated by illumination with green light. After 3 days, gene expression was detected in the artery.

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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.26	-5.21

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: May 9, 2003 (20030509/UP).